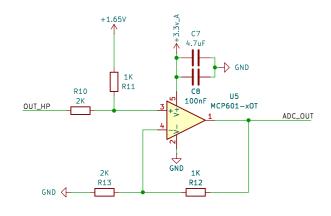
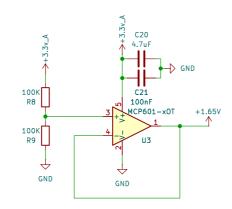
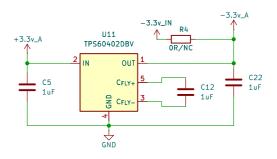


HIGHPASS Filter Sallen key







```
Vout = [(OUT_Filter*R11)+(1.65*R10)]/(R10 +R11)

Gain = 1 + (R12 / R13)

ADC_OUT = Vout * Gain

Ex: -3.3v -> 0v -> ADC_OUT = [(-3.3*1K)+(1.65*2K)]/(3K) * [1+(500/1K)] = 0v

0v -> 1.65v -> ADC_OUT = <math>[(0*1K)+(1.65*2K)]/(3K) * [1+(500/1K)] = 1.65v

+3.3v -> 3.3v -> ADC_OUT = [(+3.3*1K)+(1.65*2K)]/(3K) * [1+(500/1K)] = 3.3v
```

Non-inverting op-amp level shifter (cộng không đảo)

Sheet: /
File: EMG_SENSOR.kicad_sch

Title: MYOBAND_EMG

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KiCad E.D.A. 8.0.9 Id: 1/1